

NC/QC/YD/2021-22/P11-C1

Date: 26-08-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	161 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19%	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.04mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.75 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected At: Ajantha Vihar Appartment Rd

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NC/QC/YD/2021-22/P11-PCC1

Date: 26-08-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	67.45	0 -20	30- 70
10mm	31.80	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.40	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.25	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600.mic	46.80	15-34	35-59	60-79	
300.mic	23.15	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Ajantha Vihar Appertment Rd





NC/QC/YD/2021-22/P11-PCC2

Date: 27-08-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	62.35	0 -20	30- 70
10mm	29.15	0 -5	10- 35
4.75mm	3.95	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.05	60-95	75-100	85-100	
01.18	73.60	30-70	55-90	75-100	
600.mic	44.20	15-34	35-59	60-79	
300.mic	22.60	5-20	8-30	12-40	
150.mic	7.95	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Line Lights Rd(# 1035 House) Wheel and Axel compound Parallel Rd

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NC/QC/YD/2021-22/P11-C5

Date: 28-08-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.18%	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.05mm	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	28.75 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Durga Ganapathi House Rd

Page No: 1/1,
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NC/QC/YD/2021-22/P11-PCC6

Date: 30-08-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

3. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	62.55	0 -20	30- 70
10mm	30.15	0 -5	10- 35
4.75mm	3.95	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.25	60-95	75-100	85-100	
01.18	71.35	30-70	55-90	75-100	
600.mic	45.65	15-34	35-59	60-79	
300.mic	24.10	5-20	8-30	12-40	
150.mic	5.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: GO GO International Factory Main Rd (Nidhi Fasions Rd)

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Page No. 1/1,



NC/QC/YD/2021-22/P11-PCC10

Date: 02-09-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	66.35	0 -20	30- 70
10mm	29.15	0 -5	10- 35
4.75mm	3.95	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.15	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.25	60-95	75-100	85-100	
01.18	71.35	30-70	55-90	75-100	
600.mic	45.65	15-34	35-59	60-79	
300.mic	24.85	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Cross Rd-2

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NC/QC/YD/2021-22/P11-CB6

Date: 14-09-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

SI No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	07-09-21	14-09-21	07	22500	380	16.89	16.89
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	390	17.33	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 5th Cross Rd (Impu House Rd # 156)

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NC/QC/YD/2021-22/P11-CB15

Date: 16-09-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	09-09-21	16-09-21	07	22500	380	16.89	16.89
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	390	17.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Ajantha Vihar Appartment Beside Rd LHS From End Ch: 64.70m to 94.70m

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NC/QC/YD/2021-22/P11-CB12A

Date: 07-10-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	09-09-21	07-10-21	28	22500	515	22.89	22.81
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Cross Rd-3

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NC/QC/YD/2021-22/P11-K6

Date: 09-09-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

1. PHYSICAL TESTS ON KERB STONES:

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	23.16	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.32	22.50		
3	003	3.40	23.70		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.63	4.73
2	002	4.75	
3	003	4.82	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: GO GO International Factory Main Rd (Nidhi Fasions Rd) Ch: 30.00m to 44.00m

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NC/QC/YD/2021-22/P11-C15

Date: 25-09-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22.

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	260 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.05 mm	Shall not be more than 10 mm
5	Compressive strength o) 3 days (average of three results)	28.55 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the requirements.

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Durga Ganapathi House Rd Ch. 96.40m to 126.40m

Page No. 1/1,





NC/QC/YD/2021-22/P11-PB1

Date: 30-09-2021

TEST REPORT

Sub: Testing of Pre-cast Paver Blocks of thickness 60mm.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

Technical Reference*: IS 15658-2006.

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Compressive Strength, N/mm ²	Average Compressive Strength, N/mm ²
1	001	41.75	41.86
2	002	42.00	
3	003	41.50	
4	004	42.20	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 4th Cross Rd

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NC/QC/YD/2021-22/P11-GSB2

Date: 09-09-2021

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	94.55	80-100
26.50	81.05	55-90
9.50	54.15	35-65
4.75	45.80	25-50
2.36	17.25	10-20
0.85	8.90	2-10
0.425	4.10	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 5th Cross Rd Ch. 30.00m to 60.00m

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Date: 14-09-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS.383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.41 %	Not more than 2.0 %
2.	Liquid Limit, %	18.69	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.36	-----
5.	Aggregate Impact Value, %	28.75	Not more than 40 00 %

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Manjunathaswamy Nilaya House Rd Ch. 0.00m to 26.30m

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Date: 12-10-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.42 %	Not more than 2.0 %
2.	Liquid Limit, %	18.59	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.45	-----
5.	Aggregate Impact Value, %	27.93	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Manjunathaswamy Nilaya House Opposite Rd Ch: 30.00m to 32.20m

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Page No. 2/2





Date: 08-09-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.86%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.34%	Not more than 35.0 %
3.	Water absorption, %	0.42 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Kaveri Layout 1st Main Rd Ch: 30.00m to 60.00m

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NC/QC/YD/2021-22/P11-W3

Date: 09-09-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.40	95-100
26.50	---	-
22.40	73.15	60-80
11.20	56.25	40-60
4.75	33.65	25-40
2.36	25.95	15-30
0.600	17.30	8-22
0.075	4.15	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Ajanth Vihara Appertment Beside Rd Ch. 60.00m to 90.00m

Page No. 1/2,





NC/QC/YD/2021-22/P11-W4

Date: 09-09-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.70	95-100
26.50	---	-
22.40	72.15	60-80
11.20	56.25	40-60
4.75	32.90	25-40
2.36	24.05	15-30
0.600	19.25	8-22
0.075	3.55	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected from: Ananthosh Nagara 9th A Cross Rd Ch: 32.60m to 62.60m

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Sri Yogesh M/s Nandi Construction
32.60m to 62.60m

Page No. 1/2,





NC/QC/YD/2021-22/P11-W6

Date: 13-09-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.45	95-100
26.50	---	-
22.40	73.20	60-80
11.20	56.80	40-60
4.75	32.65	25-40
2.36	24.15	15-30
0.600	18.30	8-22
0.075	4.10	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 1st Cross Rd Ch: 0.00m to 30.00m

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Page No. 1/2,





Date: 14-09-2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS.383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	26.78%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.36%	Not more than 35.0 %
3.	Water absorption, %	0.43 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 6th Cross Rd Ch: 120.00m to 150.00m

Page No. 2/2

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13, 10TH CROSS RD CH: 120.00m to 150.00m





NC/QC/YD/2021-22/P11-W13

Date: 24-09-2021

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

1. Gradation Test:

TABLE I.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	72.35	60-80
11.20	55.80	40-60
4.75	32.45	25-40
2.36	25.15	15-30
0.600	19.70	8-22
0.075	3.50	0-5

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Thirumala Nagara Ch: 90.00m to 120.00m

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Page No. 1/2,





NC/QC/YD/2021-22/P11-DBM1

Date: 20-09-2021

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 4.52 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	96.25	90-100
19.0	84.15	71-95
13.20	71.40	56-80
4.75	48.65	38-54
2.36	33.05	28-42
0.300	18.95	7-21
0.075	6.25	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Mandharathi Tiffan Center Rd Ch: 30.00m to 60.00m

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B.





NC/QC/YD/2021-22/P11-DBM3

Date: 23-09-2021

1. TEST REPORT ON BITUMINOUS MIXES :**(BITUMEN EXTRACTION TEST & GRADATION TEST)**

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS**A. Type of Construction : Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 4.54 %

2. Gradation Test**TABLE 1.1**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	97.10	90-100
19.0	82.50	71-95
13.20	71.35	56-80
4.75	48.80	38-54
2.36	36.05	28-42
0.300	17.90	7-21
0.075	6.55	2-8

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: True Valve Car Rd Ch: 30.00m to 60.00m

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NC/QC/YD/2021-22/P11-DS4

Date: 23-09-2021

I. TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1246	900
2	Marshall Flow at 60°C, mm.	3.32	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Manjunathaswamy Nilaya House Opposite Rd Ch: 0.00m to 30.00m

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NC/QC/YD/2021-22/P11-DS6

Date: 25-09-2021

L.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11) }

Ref. Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.O.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1252	900
2	Marshall Flow at 60°C, mm.	3.46	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: 2nd Main Rd Ch: 90.00m to 120.00m

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NC/QC/YD/2021-22/P11-CB1

Date: 20-09-2021

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No 1).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	22.86 %	Not more than 24 00 %
2.	Combined Flakiness and Elongation index, %	27.59 %	Not more than 35.0 %
3.	Water absorption, %	0.43%	Not more than 2.0 %
4.	Specific gravity	2.62	-----
5.	Soundness	5.36%	Max. 12 % in Sodium Sulphate

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: KSSIDC Industrial Estate Rd

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NC/QC/YD/2021-22/P11-BS1

Date: 24-09-2021

1. TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1368	900
2	Marshall Flow at 60°C, mm.	3.56	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Ajanth Vihara Appartment Beside Rd Ch: 30.00m to 60.00m

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NC/QC/YD/2021-22/P11-BC4

Date: 04-10-2021

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

A. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 5.42 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	96.05	90-100
9.5	83.45	70-88
4.75	65.95	53-71
2.36	53.25	42-58
1.18	41.70	34-48
0.600	32.15	26-38
0.300	22.95	18-28
0.150	17.60	12-20
0.075	8.15	4-10

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: 2nd Main Rd Ch: 240.00m to 259.00m

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Page No. 1/1



NC/QC/YD/2021-22/P11-BS6

Date: 07-10-2021

1. TEST REPORT ON BITUMINOUS MIXES : (STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1352	900
2	Marshall Flow at 60°C, mm.	3.40	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: True Valve Car Rd Ch: 0.00m to 30.00m

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NC/QC/YD/2021-22/P11-BS7

Date: 08-10-2021

I. TEST REPORT ON BITUMINOUS MIXES : (STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11). }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1346	900
2	Marshall Flow at 60°C, mm.	3.32	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: 5th Cross Rd Ch: 270.00m to 300.00m

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NC/QC/YD/2021-22/P11-CR2

Date: 28-09-2021

I. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg Value
1	001	21-09-21	28-09-21	07	22500	530	23.56	23.70
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Temple Surrounding Ch. 16.50m to 20.50m

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NC/QC/YD/2021-22/P11-CR1A

Date: 19-10-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Comprehensive Development of Balance Roads and Drains at Aditya Nagara Ananthapura Nisarga layout, Mahalakshmi layout Yelahanka new town 4th and 5th phase Doddabettahalli village, Kaveri layout and surrounding areas in ward No-03 and 04 of Yelahanka Division (Package No11).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri Yogesh M/s Nandi Construction

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg Value
1	001	21-09-21	19-10-21	28	22500	730	32.44	32.59
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Temple Surrounding Ch:20.50m to 33.50m

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